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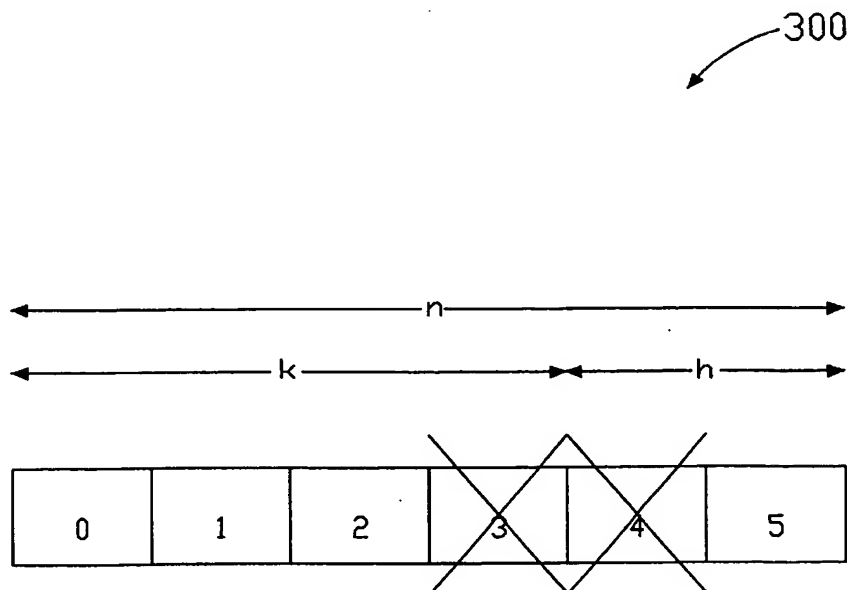
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- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYNCHRONIZATION LOSS RESILIENT DIGITAL COMMUNICATION SYSTEM USING FORWARD ERASURE CORRECTION



(57) Abstract: There is provided an apparatus for enabling recovery of missing information (Fig. 3) in a digital communication system (100). The apparatus includes a Forward Erasure Correction (FXC) encoder (110) for computing FXC parity superpackets across information superpackets for subsequent recovery of any entire ones of the information superpackets that have been at least partially compromised due to synchronization loss.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/11969

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H03M 13/00
US CL : 370/324, 397, 520; 714/746

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 370/217, 218, 316, 320, 324, 334, 341, 350, 397, 401, 492, 503, 510, 520; 714/701, 746, 752, 758, 787

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST, WEST, IEEE, DERWENT, Web sites, ACM

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,195,777 B1 (LUBY et al.) 27 February 2001, col. 3, lines 30-63, col. 5, lines 25 through col. 7, lines 1-65, col. 8, lines 1-67col. 11 lines 33 through col. 22, lines 1-43.	1-21
A	US 6,163,870 A (LUBY et al.) 19 December 2000, entire document.	1-21

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "B" earlier application or patent published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

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